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UNITED STATE DEPARTMENT OF COMMERCE

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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
	09/319,156	11/02/99	PARANHOS-BACCALA	G 103514
	OLIFF & BERRIDGE		HM12/0216	EXAMINER PARKIN_I
	PO BOX 199 ALEXANDRIA			ART UNIT PAPER NUMBER
				1648 DATE MAILED: 02/16/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

09/319,156

Approxant(s)

Paranhos-Baccala, G., et al.

Examiner

Jeffrey S. Parkin, Ph.D.

Group Art Unit 1648



X Responsive to communication(s) filed on 2 Jun 1999	
This action is FINAL .	
Since this application is in condition for allowance except in accordance with the practice under Ex parte Quayle, 19	
A shortened statutory period for response to this action is set is longer, from the mailing date of this communication. Failur application to become abandoned. (35 U.S.C. § 133). Exter 37 CFR 1.136(a).	re to respond within the period for response will cause the
Disposition of Claims	
X. Claim(s) <u>1-26</u>	is/are pending in the application.
Of the above, claim(s)	is/are withdrawn from consideration.
Claim(s)	is/are allowed.
Claim(s)	is/are rejected.
Claim(s)	
X Claims <u>1-26</u>	are subject to restriction or election requirement.
Application Papers	
See the attached Notice of Draftsperson's Patent Draw	ring Review, PTO-948.
The drawing(s) filed on is/are objection	ected to by the Examiner.
The proposed drawing correction, filed on	is 🗀 approved 🗀 disapproved.
The specification is objected to by the Examiner.	·
The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. § 119	
Acknowledgement is made of a claim for foreign priorit	y under 35 U.S.C. § 119(a)-(d).
☐ All ☐ Some* ☐ None of the CERTIFIED copies	of the priority documents have been
received.	
received in Application No. (Series Code/Serial N	
received in this national stage application from the	
*Certified copies not received:	
Acknowledgement is made of a claim for domestic prio	rity under 35 U.S.C. 3 119(e).
Attachment(s)	
□ Notice of References Cited, PTO-892	
Information Disclosure Statement(s), PTO-1449, Paper Interview Summary, PTO-413	No(s)
Notice of Draftsperson's Patent Drawing Review, PTO-	948
Notice of Informal Patent Application, PTO-152	
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SEE OFFICE ACTION ON	I THE FOLLOWING PAGES

Serial No.: 09/319,156

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Docket No.: 103514 Filing Date: 11/02/99 Applicants: Paranhos-Baccala, G., et al.

Lack of Unity

Unity of Invention

1. This application was filed under 35 U.S.C. § 371 and is subject to unity of invention practice pursuant to 35 U.S.C. § 121 and 372. This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In accordance with 37 C.F.R. § 1.499, applicants are required, in response to this action, to elect a single invention to which the claims must be restricted.

- a. Group I, claims 1-17 and 22, drawn to nucleic acids corresponding to various regions of the retroviral genome.
- b. Group II, claims 18-21, drawn to nucleic acid probes and primers derived from various regions of the retroviral genome.
- c. Group III, claims 23 and 24, drawn to different retroviral structural proteins.
- d. Group IV, claim 25, drawn to a diagnostic composition comprising nucleic acid fragments corresponding to various regions of the retroviral genome.
- e. Group V, claim 25, drawn to a prophylactic or therapeutic composition comprising nucleic acid fragments corresponding to various regions of the retroviral genome.
- f. Group VI, claim 26, drawn to detection methods employing nucleic acid fragments corresponding to various regions of the retroviral genome.

In addition to the groups identified supra, applicants are required to identify and elect only those nucleotide sequences corresponding to a single and specific structural (i.e., gag, pol, or env) and regulatory region (i.e., LTR) of the viral genome. For instance, if Group I is elected, applicants should pick a specific structural or regulatory region (i.e., the pol gene) and clearly indicate which nucleotide sequences (i.e., SEQ ID NO.: 112) correspond to

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the elected region. If Group III is elected, applicants should pick a specific structural protein (i.e., the Env protein) and clearly indicate which nucleotide sequences encode the region of interest (i.e., SEQ ID NO.: 114?). The claims will only be examined to the extent they read on the elected structural or regulatory region. Due to the confusing nature of the sequence disclosure, the Examiner was unable to clearly ascertain the structural/regulatory features of all the SEQ ID NOS. set forth in the claims.

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2. The inventions listed as Groups I-VI do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the various groups identified supra are directed toward structurally and functionally different products (i.e., nucleic acids, primers, and proteins), compositions (i.e., diagnostic, therapeutic), and method of use. Each of identified sequences is derived from a different region of the retroviral genome and will contain a unique structure and function (i.e., the Gag proteins form the virion capsid, the Pol proteins contain enzymatic functions required for reverse transcription and in tegration, and the Env proteins are required for viral entry). Moreover, the claimed invention also fails to make a contribution over the prior art as set forth in the ISA Chapter I search report which identified X and Y references.

Claim Cancellation

3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).

Correspondence

- 4. The Art Unit location of your application in the Patent and Trademark Office has changed. To facilitate the correlation of related papers and documents for this application, all future correspondence should be directed to art unit 1648.
- 5. Correspondence related to this application may be submitted to Group 1600 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). Official communications should be directed toward one of the following Group 1600 fax numbers: (703) 308-4242 or (703) 305-3014. Informal communications may be submitted directly to the Examiner through the following fax number: (703) 308-4426. Applicants are encouraged to notify the Examiner prior to the submission of such documents to facilitate their expeditious processing and entry.
- 6. Any inquiry concerning this communication should be directed to Jeffrey S. Parkin, Ph.D., whose telephone number is (703) 308-2227. The examiner can normally be reached Monday through Thursday from 8:30 AM to 6:00 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner are unsuccessful, the examiner's supervisors, James Housel or Laurie Scheiner, can be reached at (703) 308-4027 or (703) 308-1122, respectively. Any inquiry of a general nature or relating to the status of this application should be directed to the Group 1600 receptionist whose telephone number is (703) 308-0196.

Respectfully,

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Jeffrey S. Parkin, Ph.D.

Patent Examiner Art Unit 1648

14 February, 2001

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